SEQUENCE LISTING

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<120> Uses of Kappa-Conotoxin PVIIA

<130> Kappa-PVIIA

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<150> US 60/219,438
<151> 2000-07-20

<150> US 60/155,135
<151> 1999-09-22

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<170> PatentIn Ver. 2.0

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<222> (1)..(27)
<223> Xaa at residue 2, 7, 18, 19, 22 and 25 may be Arg, homoarginine, ornithine, Lys, N-methyl-Lys, N,N-dimethyl-Lys, N,N,N-trimethyl-Lys, any synthetic basic amino acid, His or halo-His; Xaa at

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<223> residue 4 may be Pro or Hyp; Xaa at residue 9 and 23 may be Phe,Tyr, meta-Tyr, ortho-Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr, Trp (D or L), neo-Trp,

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<223> halo-Trp (D or L) or any synthetic aromatic amino acid; Xaa at residue 11 is His or halo-His

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Cys Xaa Ile Xaa Asn Gln Xaa Cys Xaa Gln Xaa Leu Asp Asp Cys Cys
1 5 10 15

Ser Xaa Xaa Cys Asn Xaa Xaa Asn Xaa Cys Val
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Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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Ser Arg Lys Cys Ala Arg Phe Asn Lys Cys Val
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Ala Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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Ser Arg Lys Cys Asn Arg Phe Ala Lys Cys Val
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Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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Ser Arg Lys Cys Asn Arg Phe Asn Lys Cys Val
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C1 Concludes

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